Cost of upper Indravati Project

2477. SHRIMATI JAYANTI PATNAIK: Will the Minister of WATER RESOURCES be plea'sed to state:

(a) whether Government have revised the estimated cost of Upper Indravati Project in' Orissa;

(b) if so, the details of the revised cost of that project;

(c) the amount spent on that Project So far and the progress of the work;

(d) by when the project is expected to by completed; and

(e) the steps taken to expedite the project?

1. *DamjHead wotkx:*
   (i) Indiavafii, Podagada &Kapu£ Dam
   (ii) MuianDam
   (iii) Dykes (8 Nos.)
   iv) Hati Baitaga & Head Ragulafots .
2. *Canal System*
   Left Canal System
   Right Canal System
   Lilt Canal System.
3. *Potential*
   Ultmata Ittigatiaa potential
   Potential achieved upto 3/97

(d) The project is schedulde to bo com pleted by the end of DC Plan i.e., 2001-2002.

(e) Union Government hag extended approved Central loan assistance under Accelerated Irrigation Benefits Programme during 1996-97/1997-98 for early com-pletion-of the project.

Soil erosion and silting of dams and reservoirs in Orissa

2478. SHRIMATI JAYANTI PATNAIK: Will the Minister of WATER RESOURCES be pleased to state:

(a) whether Government are aware of the protlem of soil erosion and silting of dams and reservoirs in the country;

THE MINISTER OF STATE OF THE MINISTRY OF WATER RESOURCES (SHRI SIS RAM OLA): (a) and (b) The Upper Indravati Project was originally approved by Plaiming Commission during May, 1978 for an estimated cost of Rs. 208.14 crores (1975 price level). The State Government has submitted revised estimate of Upper Indravati Project for Rs. 1476.53 crores (February 1994 price level) to Central Water Commission in November, 1994. The State Government has further been requested to modify the estimate at the Current price level incorporating the comments of the Central Water Commission.

(c) The anticipated expenditure on the project upto 3/97 is Rs. 901.44 crores. The progress of work on the project upto 3/97 is as under:—

	Completed	Works in ptogiess	Completed	Completed
		Concrete & Masonary		
Earth Work				
		85%	75% . 65%	
Nat yet started				
			209.000 hectates	
			30,000 hectares	

(b) if so, the State-wise details thereof-

(c) whether Orissa has been facing a serious problem due to erosion of soil and increasing silting of reservoirs and dams in the State;

(d) if so, the dam and reservoir-wise details thereof (in Orissa);

(e) whether Goverament propose to implement any action plan to deal with the situation; and

(f) if so, the detail's thereof?

THE MINISTER OF STATE OF THE MINISTRY OF WATER RESOURCES (SHRI SIS RAM OLA): (a) to (d) Yes, Sir. Soil erosion and silting of reservoirs are natural phenomenae and provisions

are made in the reservoirs for accommodating silt. Generally, the reservoirs are planned for a life of 100 years. Most of the important reservoirs are being monitored by conducting capacity surveys to assess the rate of siltation and storage capacity. *The* result of surveys conducted during the last 3 decades have indicated that the rate of siltation in some of the reservoirs are higher than that envisaged at the plamiing stage. A statement showing the rate of siltation in various reservoirs in India including Harkun Dam in Orissa is enclosed. *(See below)*

(e) and (f) Soil conservation measures, afforestation and water management practices in the catchment of River Valley Projects are expected to reduce the rate of siltation in the reservoirs to some extent.

Statement

Rate of Siltation tn varioui ttiervoin tn India

SI. No.	Name of reservoir	Name of river	Storage capacity (MmS)	Yeae of impoun-ding	Designed rate ol sediment-ation	Observed late of siltin? in Ha.m/ lOOKm'/Yeai Avetage Period
1	2	3	4	5	6	7
	ANDHRA PRADESH					
1.	Sriramasagac .	Godavaii	3171.94	1970	3.57	6.186 (14 Yti)
2.	ISixamsagat .	. Manjiia	841.18	1930	2.38	4.8911 (45 yrs)
3.	Himayatiagai	Issa	107.79	1927	N.A.	4.467 (49 yrs)
4.	Ramappa Lake	. Manaif	82.48	1919	N.A.	2.583 (56yrs)
3.	Lakhamvacam Lake	Lakham-vara	60.42	1909	N.A.	10.65 (66 yrs)
6.	Cumbum tank	. Gundu-kamma	105.76	1956	N.A.	9.89 (22 yrs)
7.	Diadl	Diadi	73.83	1943	N.A.	0.1708 (33 SIS)
8.	Fakhal Lake .	. Muneiu	95.83	1922	N.A.	NIL (53 yrs)
9.	Shanigiam	. Siddipet	29.03	1891	N.A.	1.134 (81 yrs)
10.	Falair .	. Falaii	56.56	1928	N.A.	0.146 (49 yrs)
11.	Wyra .	. Wyia & Fansidi	24.66	1929	N.A.	2.87 (48 yrs)
12.	Manjira	Manjita	50.94	1966	N.A.	1.015 (11 yrs)

1	2	J	*A*	5	6	7
13.	Kaddam	Kaddam	124.43	1958	N.A.	9.16 (19 yrs)
14.	Pochatam	Aliaiu Stteam	16.85	1922	N.A.	1.003 (56yrs)
	BIHAR :					
13.	Panchet Hill .	. Damodar	1581.00	1956	6.67	5.877 (29 yra)
16.	Mail hon	Baiakas	1348.801	1955	9.05	10.247 (24 yrs)
	GUJARAT					
17.	Ukai	. Tapi	8510.00	1972	1.49	7.16 (12 yrs)
18.	Kadana	. Mahi	1543.00	1977	1.30	3.918 (7 yis)
	HIMACHAL FRADESH					
19.	Pong .	Beas	8579.00	1974		27.85 (112yr»j
	KARNATAKA :					
20.	Tunghbhadta.	Tunabha-dra	3731.17	1953	4.29	6.48 (32 yrs)
21.	Bhadar .	Bhadai	239.22	1963	7.6	11.607 (11 yrs)
	KERALA :					
22.	Malampuzha .	Malam-puzha	228.40	1955	N.A.	25.401 (22 yrs
23.	Pefiflhi .	Manali	113.27	1957	N.A.	0 957 (25 yrs)
24.	Mangalam	Bhaiatha-puzba	25.47	N.A.	N.A.	11.06 (29yrs)
25.	Peiuvannatquzhi	Kruttiyadi	120.53	N.A.	N.A.	18.4 (13 JIM)
26.	Pooket Lake .	NA.	N.A.	1969	N.A.	N.A. (19 yrs)
	MADHYA PRADESH ;					
27.	Gandhi Sagar	Chambal	7740.00	I960	3.57	8.958 (16 yrs)
	MAHARASHTRA :					
28.	Girna	Gima& Panzan	608.81	1965	0 56	7.487 (14 yrs)
29.	Shivaji sagar (Koyna)	1 Koyna	2987.83	1961	6 67	7 7104 (10 yrs)

1	2	3	4	5	6	7
ORR	*ISSA :*					
30.	Hirakud	Mahanadi	8105.00	1957	2.50	6 618 . (;27 yjfs)
PUNJAB:						
31.	Bhakra .	Sutlej	9869 00	1958	4.29	5.658 (29 yrs)
TAMIL NADU :						
32.	tower Bhawani	Bhawani	932-7S2:	1953	N.A.	3.00 (30 yrs)
33.	Vaigai .	Vaigai	194 785	1958	N.A.	3.977 (25 yrs)
34.	Mettur (Stanley)	Cauvery	2708.764	1934	N.A.	2.52 (50 yrs)
35.	Upper Bhawani	Kundah	101.1476	1965	N.A.	0 546 (25 yrs)
36.	Sethnur .	Penniar	234.828	1957	N.A.	1 017 (25 yrs)
37.	Aliyar . .	Aliyar	109.40	1962	N.A.	8.475 (19 yrs)
38.	Emerald Avlanchi .	Emerald Avlanchi	156.75	1961	N.A.	0.3381 (20 yrs)
39.	Manimutharu	Kailmani Muthar & Malama-nimuthar	159.734	1958	N.A.	12.158 (22 yrs)
40.	Krisbanagiri	Pannala-rui	68.25	1957	N.A .	1.723 (19 yrs)
41.	Kundah	Kundah	1.534	1960	N.A.	2.63 (20 yrs)
UTTAR PRADESH :						
42.	Matatiia.	Betwa	1132 70	1956	133	6.005 (28 yrs)
43.	Ramganga	Ramganga	2449.60	1975	4.25	22-94 (10 yrs)
44.	Ichari	Tons	11.55	1972	N.A.	1 3298 (6 yrs)
45.	Dhuikwan	Betwa	106-45	1907	0.432	0.304 (73 yrs)
WEST BENGAL :						
46.	Mayurakshi	Mayura-kshi	607.70.	1955.	3.75	16.826 (15 yrs)

NOTE: Mm —Million cubic metre.
Ha.m —Hectare metre.
Km —Kilometre.